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VOL. VI

NO. 1

Carleton College

BULLETIN

ANNOUNCEMENT NUMBER

September, 1909

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NORTHFIELD, MINN.

Published by the College four times a year, in September,
December, March and June.

Entered April 4, 1905, at Northfield, Minn., as second-class matter,
under Act of Congress of July 16, 1894.

THE FACULTY

DONALD JOHN COWLING, PH. D., D. D.
President and Professor of Philosophy.

HERBERT COUPER WILSON, PH. D.
*Dean, Professor of Mathematics and Astronomy, and
Director of the Observatory.*

ISABELLA WATSON, B. L.
Professor of French and German. (Absent on leave 1909-10).

WILLIAM LEONARD GRAY,
*Director of the School of Music, and Professor of Piano, Organ,
and Composition. (Absent on leave 1909-10).*

FRANZ FREDERICK EXNER, PH. D.
Professor of Chemistry.

EZRA THAYER TOWNE, PH. D.
Registrar and Professor of Economics and History.

LUTHER ALLAN WEIGLE, PH. D.
Professor of Philosophy and Psychology.

FREDERICK JOY FAIRBANK, M. A.
Professor of Latin.

MARY ALICE EMERSON, M. A.
Dean of Women and Professor of English.

CARLETON VOLNEY KENT, M. S.
Acting Professor of Physics.

S. HOWARD BROWN,
Instructor in Voice.

RUTH ETTA BUSWELL, B. A.
Instructor in Piano and History of Music.

CAROLINE DEAN, M. A.
Instructor in German.

NEIL STANLEY DUNGAY, B. A.
Instructor in Biology.

CURVIN HENRY GINGRICH, M. A.,
Instructor in Mathematics.

MARY LATIMER GRAY.
Instructor in Voice and Piano. (Absent on leave 1909-10).

FRED BURNETT HILL, B. L., B. D.
Instructor in Biblical Literature and Education.

MARGARET HOLMAN, B. A.
Instructor in Greek and History of Art.

MAURICE KENT, B. S.
Instructor in Athletics.

JESSIE M. LAW,
Instructor in Violin.

EDNA EUGENIA LOWE,
Instructor in Elocution and Physical Training for Women.

JAMES WILBUR McCANDLESS, B. A.
Instructor in Rhetoric and Public Speaking.

ELISABETH NICHOLS, M. A.
Instructor in English.

ELIZABETH SCHUSTER,
Instructor in Piano, Organ and Composition.

ELIZABETH ZIMMERMAN, B. A.
Instructor in French and German.

MARY WALDRON CLARK, B. A.
Fellow in Mathematics and Astronomy.

JESSIE M. SHORT, B. A.
Fellow in Mathematics.

Standing Committees of the Faculty

1. *On courses of study and admission:* PROFESSORS TOWNE, EMERSON, WILSON, WEIGLE AND MR. GINGRICH.
2. *On buildings and grounds:* PROFESSORS KENT, EXNER AND FAIRBANK.
3. *On religious life:* PRESIDENT COWLING, MR. HILL, PROFESSORS WILSON, EMERSON AND WEIGLE.
4. *On official publications:* PROFESSORS FAIRBANK, EXNER AND MR. McCANDLESS.
5. *On student publications and newspaper correspondence:* PROFESSOR FAIRBANK, MR. McCANDLESS AND MISS DEAN.
6. *On library:* PROFESSORS EMERSON AND TOWNE, MR. DUNGAY AND MISS GLADSTONE.
7. *On athletics:* MR. HILL, MR. KENT, PROFESSORS EXNER AND KENT.
8. *On official date book and schedules:* PROFESSORS WILSON, EMERSON AND TOWNE.
9. *On student organizations:* PROFESSOR WEIGLE AND MR. DUNGAY.
10. *On student aid funds:* PRESIDENT COWLING, PROFESSORS WILSON AND EMERSON.
11. *On alumni interests:* PROFESSORS EXNER AND WILSON, MR. HILL AND MISS GLADSTONE.

ANNOUNCEMENTS

Registration

The committee on registration will be in session at the Scoville Library on Monday and Tuesday, Sept. 13 and 14; on Monday from 2 to 5 P. M. and on Tuesday from 9 A. M. to 12:30 P. M. and from 2 to 5 P. M. Students may complete their registration on either of these days. A registration fee of fifty cents will be charged those enrolling after registration days.

Candidates for admission to the college are urged to meet the committee on Monday if possible. It will facilitate registration if the candidates will send their certificates to the Registrar before Sept. 13.

Examinations

for making up deficiencies and for entrance to the College will be held on Monday, September 20th.

The Opening Exercises

will be held in Willis Hall Chapel on Wednesday, Sept. 15, at 10:30 A. M. The address will be given by President Cowling.

Regular recitations will begin at 1:40 P. M.

Faculty Changes

Sabbatical year vacations this year fall to Professor Watson and Professor and Mrs. Gray.

Miss Elizabeth Zimmerman, B. A., a graduate of De Pauw University and for two years an assistant in French in that institution, has been elected instructor in French and German to serve during Miss Watson's absence.

Miss Elizabeth Schuster, who received her training in Boston and Berlin, will be the acting head of the School of Music in the absence of Professor Gray. She will teach the advanced piano students and also those taking organ.

Mr. S. Howard Brown of Minneapolis, a graduate of Michigan State Normal College and for two years a student under musical artists in Paris, will have charge of the work in voice and will conduct the Choral Union.

Miss Elisabeth Nichols, M. A., of the University of Michigan, has been secured to take the place of Miss Firman, who resigned

her position as instructor in English to take up missionary work in Arabia. Miss Nichols has had several years experience as teacher in English in important institutions.

Miss Edna Eugenia Lowe, a graduate of the School of Oratory of Upper Iowa University and of the Cumnock School of Northwestern University, has been elected instructor in elocution and physical training for women. She has had six years experience as reader and teacher, having been a member of the faculty at Upper Iowa University and at Beaver College for Woman, Pennsylvania.

Mr. Curvin H. Gingrich, M. A., a graduate of Dickinson College, Pennsylvania, and for two years instructor in mathematics at Baker University, has accepted an instructorship in mathematics. He has had six years experience teaching mathematics, and during his last year at Baker he was principal of the academy. He is spending the summer in advanced work in mathematics at the University of Chicago.

Mr. Maurice Kent, whose election as director of athletics has been previously announced, will be on the grounds at the opening of school to begin the work of training the fall teams.

Miss Eleanor J. Gladstone, who has been spending the year abroad, will resume her duties as Librarian at the beginning of the college year.

The New Gymnasium

The new Sayles-Hill Gymnasium is rapidly nearing completion. This will be undoubtedly the finest and best equipped college gymnasium in the northwest. It is to be distinctively a men's building. The dimensions are 63x173 feet. The main floor will afford a cleared space of 60x120 feet, offering ample room for indoor tennis and baseball, as well as hand-ball and basket-ball. Supported from the roof and extending clear around the gymnasium will be a gallery. This will be fitted with heavy matting and used as a running track, twenty-one laps making a mile. At times of athletic contests on the main floor chairs will be brought into the gallery, which alone will accommodate some six hundred spectators. In the basement will be a swimming pool 25x60 feet and entirely lined with white enameled brick; a batting cage 20x75 feet; locker rooms 40x50 feet; a smaller locker room for members of first teams; rubbing and drying rooms; shower baths; and a room for visiting teams.

One of the distinctive features of the building is the social rooms for the men. These are to be fitted up as regular club rooms. There are three large rooms, connected with each other by wide, folding doors so that they may be thrown together for receptions or other social gatherings. The Recreation Room has a large brick-mantled fireplace reaching to the ceiling, and is to be fitted up with a Grand piano, a billiard and pool table, and other club-room furnishings. The other rooms on this floor will be used as a trophy room and a reading room, the latter containing all of the latest periodicals. Below these rooms, on the first floor, are the physical examiner's room, record room, office, and other rooms to be used by the Director of Athletics.

Central Heating and Lighting Plant

The power house is located by the Stanton road about sixty feet farther north and 180 feet farther west than Williams Hall. Its site has been blasted out of the rock on the side hill. The building will be about 72 feet long by 40 feet wide. It will contain two 150 horse power water tube boilers, with room for two more of the same capacity; two 150 horse power stockers; two boiler feed pumps; one 450 horse power heater; two vacuum pumps; one 65 horse power high speed engine connected to a 35 kilowatt 250 volt direct current generator, with switchboard and other electrical appliances. The chimney is to be of reinforced concrete 140 feet high.

Steam is to be carried to seven buildings on the campus through pipes carried in conduits from 4 to 14 feet underground. In the same trench are to be laid conduits for electrical wires to the several buildings.

Water is to be furnished from an artesian well, near the power house, which will be drilled through the rock to a depth probably of about 200 feet. The cost of the complete heating and lighting plant will be about \$37,000.

Building Improvements

In addition to the usual summer renovation of buildings, Willis Hall corridors and recitations rooms have been retinted and the outside wood work painted. The tower clock, which has done excellent service for twenty-three years, has been overhauled, the chime connections have been repaired and it is to have new hands and dials.

The interior of the Observatory has been brightened with paint and kalsomine. A new Riefler clock for the time service has been ordered and will be installed in a room of constant temperature especially arranged for the purpose.

Gridley Hall has had the walls and ceilings of the student rooms and of the corridors freshly painted and some new furniture has been purchased for the rooms.

The greatest change is in Williams Hall. The east lecture room, second floor, has been replastered and a new floor laid preparatory to rearranging the Museum. The plan is to devote the entire second floor to museum purposes. On the first floor the partitions have been so changed as to make two large rooms. The wall and ceilings of the entire first floor have been replastered and the wainscoting and other wood finish painted. The heating system is wholly new and the building is to be heated and lighted from the central plant. These rooms are to be the homes of the men's literary societies.

Men's Literary Society Rooms

The entire first floor of Williams Hall has been remodeled and fitted up for the use of the men's societies. This furnishes two large rooms, one on either side of the hallway and extending the entire length of the building. The rooms have been remodeled, new floors put in, the walls replastered and the wood work all repainted. Each room will be lighted with eight Tungsten lights. The former hallway partitions have been extended to the north wall, thus making four large closets, one for each of the four societies. There are also two large cloak-rooms, one for each room. These rooms are not only much larger and better adapted for society purposes than the old rooms, but being used exclusively for these purposes they can be fitted up with permanent furnishings, it being intended that they shall be the permanent homes of the societies.

Carleton Lectures, 1909-10

The lecture course by members of the Faculty will be continued as in past years, the following program having been arranged:

Nov. 12—The Women of Egypt, Miss Margaret J. Evans.

Jan. 14—Egypt and the Nile (stereopticon), Rev. Fred B. Hill.

Feb. 11—The Progress of Democracy, Professor E. T. Towne.

March 11—St. Augustine, President Cowling.

Professor Trueblood of Michigan University has been secured to give his lecture on Ingomar, the date to be announced later.

Schedule of Recitations, First Semester, 1909-10.

8:00 TO 8:50 A. M.

COURSE.	INSTRUCTOR.	ROOM.	ROOM.	DAYS.
Bible 3	Mr. Hill	G	T	
†Biology 9	Mr. Dungay	LH	W T F S	
Chemistry 1	Prof. Exner	LH	W T F S	
Economics 1	Prof. Towne	F	W T F S	
French 3	Miss Zimmerman	E	W T F S	
German 1	Miss Dean	B	W T F S	
Greek 1	Miss Holman	V	W T F S	
Latin 1	Prof. Fairbank	A	W T F S	
Mathematics 3	Prof. Wilson	S	W T F S	
Oratory 1, Sec. 1	Miss Lowe	Ch	T	
Philosophy 5	Prof. Weigle	G	W T F S	
Rhetoric 1, Sec. 1	Mr. McCandless	W	T	
Rhetoric 3, Sec. 1	Mr. McCandless	W	T S	
†Physics 1a	Prof. Kent	LH	W T F S	

9:00 A. M. Chapel Exercises.

9:25 TO 10:15 A. M.

COURSE.	INSTRUCTOR.	ROOM.	ROOM.	DAYS.
Bible 1, Sec. 1	Mr. Hill	F		W
†Biology 9, Laboratory	Mr. Dungay	LH	T	T F S
Chemistry 3, Laboratory	Prof. Exner	LH	T	T F S
Education 2	Prof. Weigle	G		T S
English 5	Prof. Emerson	D	T	T F S
French 1	Miss Zimmerman	E	T	T F S
German 3	Miss Dean	B	T	T F S
History 1	Prof. Towne	F	T	T F S
*Latin 5	Prof. Fairbank	A	T	T F S
Music 3	Miss Schuster	MH	W	S
Music 7	Miss Buswell	MH	T	F
Oratory 1, Sec. 2	Miss Lowe	Ch		W
Oratory 5	Mr. McCandless	Ch	T	T
Philosophy 2	Prof. Weigle	G	W	F
†Physics 1	Prof. Kent	LH	T	T S
Rhetoric 1, Sec. 2	Mr. McCandless	W		W
*Elem. Eng. Lit.	Miss Nichols	W	T	T F S
*Mathematics 5	Prof. Wilson	S	T	T F S
Greek History	Miss Holman	V	W	T F S

10:25 TO 11:15 A. M.

COURSE.	INSTRUCTOR.	ROOM.	DAYS.		
Bible 1, Sec. 2	Mr. Hill	G	T	S	
Biology 3, Laboratory	Mr. Dungay	LH	T	W	F S
Chemistry 3	Prof. Exner	LH	T	W	F S
Education 4	Prof. Weigle	G	W		F
English 3	Prof. Emerson	D	T	W	F S
English 1, Sec. 1	Miss Nichols	LH	T	W	F S
*Greek 3	Miss Holman	V	T	W	F S
History 3	Prof. Towne	F	T	W	F S
Mathematics 1	Mr. Gingrich	S	T	W	F S
*Mathématiques 7	Prof. Wilson	T	T	W	F S
Oratory 1, Sec. 3	Miss Lowe	Ch			T
Rhetoric 1, Sec. 3	Mr. McCandless	W		W	F
Rhetoric 3, Sec. 2	Mr. McCandless	W			T

11:25 A. M. TO 12:15 P. M.

COURSE.	INSTRUCTOR.	ROOM.	DAYS.		
Bible 3	Mr. Hill	G			F
Biology 3	Mr. Dungay	LH	T	W	S
Chemistry 3, Laboratory	Prof. Exner	LH	T	W	S
Education 3	Mr. Hill	F	T	W	S
English 9	Prof. Emerson	D	T	W	S
German 7	Miss Zimmerman	E	T	W	S
Latin 3	Prof. Fairbank	A	T	W	S
Mathematics 1	Mr. Gingrich	S	T	W	S
*Mathematics 8	Prof. Wilson	T	T	W	S
Oratory 1, Sec. 1	Miss Lowe	Ch			F
Oratory 3, Sec. 2	Mr. McCandless	W		T	S
Philosophy 3	Prof. Weigle	G	T	W	S
Rhetoric 1, Sec. 1	Mr. McCandless	W			F
English 1, Sec. 2	Miss Nichols	LH	T	W	S

1:40 TO 2:30 P. M.

COURSE.	INSTRUCTOR.	ROOM.	DAYS.
Bible 5	Mr. Hill	F	T W T F
Bible 1, Sec. 1	Mr. Hill	F	S
Biology 7	Mr. Dungay	LH	T W T F
Chemistry 1, Laboratory		LH	T W T F
Chemistry 7	Prof. Exner	LH	T W T F
Comparative Lit.	Miss Nichols	D	T W T F
German 3	Miss Dean	B	T W T F
German 7	Miss Zimmerman	E	T W T F
*Greek 5	Miss Holman	V	T W T F
Mathematics 1	Mr. Gingrich	S	T W T F
Music 1	Miss Schuster	MH	T F
Music 5	Miss Buswell	MH	W S
Oratory 1, Sec. 2	Miss Lowe	Ch.	S
†Physics 5	Prof. Kent	LH	T W T F
Rhetoric 1, Sec. 2	Mr. McCandless	W	S
Vergil	Prof. Fairbank	A	T W T F

2:40 TO 3:30 P. M.

COURSE.	INSTRUCTOR.	ROOM.	DAYS.
Art History	Miss Holman	V	T W T F
*Astronomy 2	Prof. Wilson	T	T W T F
†Biology 7, Laboratory	Mr. Dungay	LH	T W T F
†Chemistry 7, Lab.	Prof. Exner	LH	T W T F
Economics 3	Prof. Towne	F	T W T F
English 11	Miss Nichols	D	T W T F
French 1	Miss Zimmerman	E	T W T F
German 1	Miss Dean	B	T W T F
Latin 1	Prof. Fairbank	A	T W T F
Mathematics 1a	Mr. Gingrich	S	T W T F
Oratory 1, Sec. 3	Miss Lowe	Ch	S
Rhetoric 3, Sec. 2	Mr. McCandless	W	S

* Hours to be arranged.

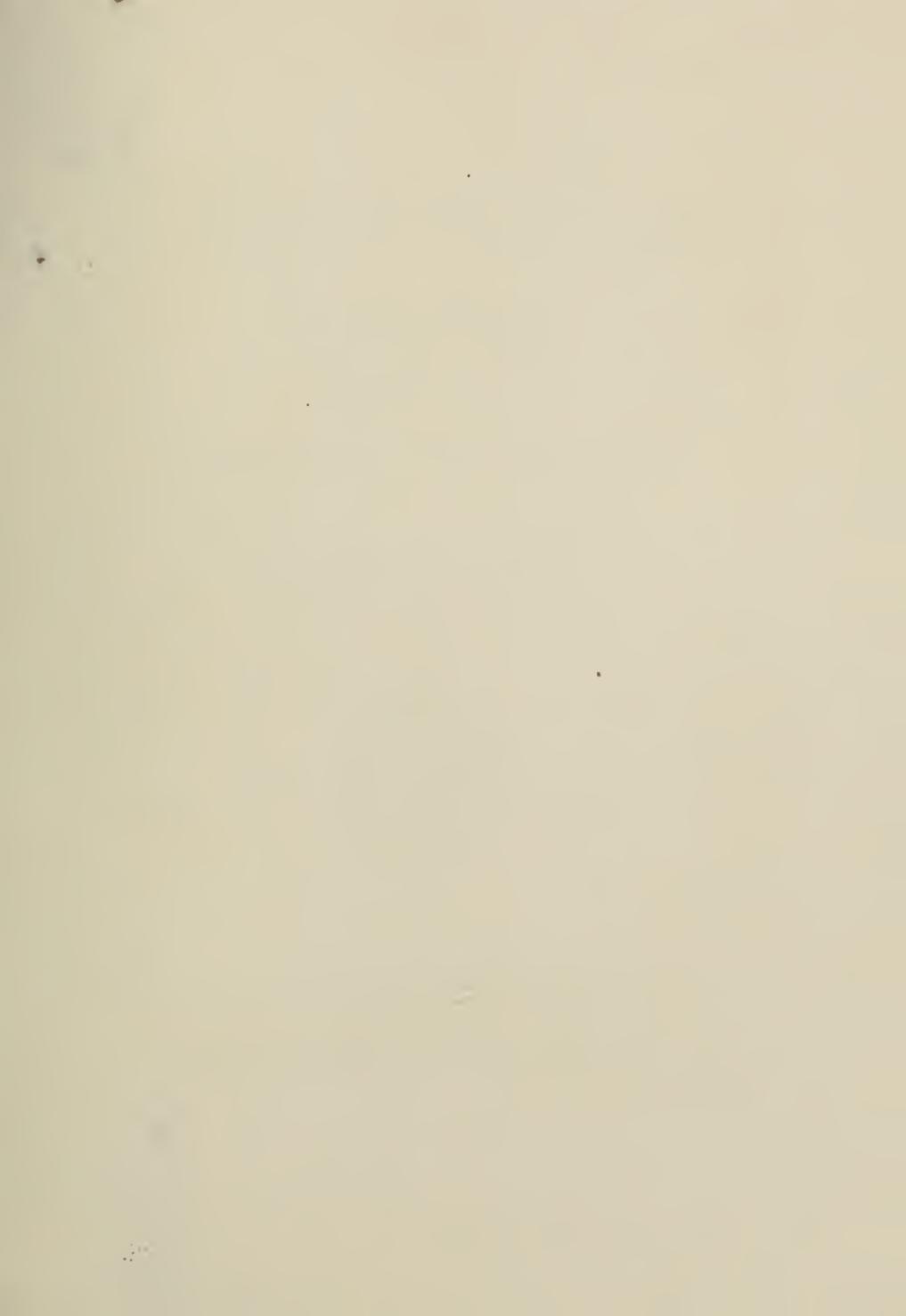
† Laboratory hours to be arranged.

Rooms A to I are in Willis Hall; LH in Laird Science Hall; S and T in the Observatory; V and W in the Library; Ch. Chapel; MH, Music Hall.

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under Act of Congress of July 16, 1894.

THE FACULTY AND OTHER OFFICERS.*

FACULTY.

DONALD JOHN COWLING, PH. D. (Yale), D. D. (Baker).
President on the Martha Walker Wilkinson Foundation, and Professor of Philosophy.

HERBERT COUPER WILSON, PH. D. (Cincinnati University).
Dean, Director of the Observatory, and Professor of Mathematics and Astronomy. (On sabbatical furlough, 1910-11).

ISABELLA WATSON, B. L. (Carleton).
Professor of French and German.

FRANZ FREDERICK EXNER, PH. D. (University of Pennsylvania).
Professor of Chemistry.

EZRA THAYER TOWNE, PH. D. (University of Halle-Wittenberg).
Registrar, and Professor of Economics and History. (On sabbatical furlough, 1910-11).

LUTHER ALLAN WEIGLE, PH. D. (Yale).
Acting Dean, and Professor of Mental and Moral Philosophy on the John Chandler Williams Foundation.

MARY ALICE EMERSON, M. A. (Wellesley).
Dean of Women, and Professor of English.

NEIL STANLEY DUNGAY, B. A. (University of Minnesota).
Acting Professor of Biology.

FRED BURNETT HILL, B. D. (Hartford).
Acting Registrar, and Acting Professor of Biblical Literature.

ARTHUR L. KEITH, PH. D. (University of Chicago).
Acting Professor of Latin on the Horatio Nelson Brinsmade Foundation.

CARLETON VOLNEY KENT, M. S. (University of Iowa).
Acting Professor of Physics and Geology.

PAUL G. MILLER, B. A. (University of Wisconsin).
Acting Professor of Education, and Instructor in Romance Languages.

ELIZABETH SCHUSTER.
Director of the School of Music, and Acting Professor of Piano, Organ, and Composition.

S. HOWARD BROWN.
Instructor in Voice.

RUTH ETTA BUSWELL, B. A. (Carleton).
Instructor in Piano and History of Music.

CAROLINE DEAN, M. A. (Doane).
Instructor in German. (Absent on leave, 1910-11).

*Full Professors are arranged in the order of appointment; all others alphabetically.

CURVIN HENRY GINGRICH, M. A. (Dickinson).
Instructor in Mathematics.

MARGARET HOLMAN, B. A. (Smith).
Instructor in Greek and History of Art.

NELLE S. JOHNS, B. A. (Northwestern).
Instructor in German.

MAURICE KENT, B. S. (University of Iowa).
Director of Athletics, and Instructor in Physical Education.

JESSIE M. LAW.
Instructor in Violin.

EDNA EUGENIA LOWE, B. O. (Northwestern).
Instructor in Elocution and Physical Education for Women.

JAMES WILBUR McCANDLESS, B. A. (University of Michigan).
Instructor in Rhetoric and Public Speaking.

EDGAR E. ROBINSON, M. A. (University of Wisconsin).
Instructor in Economics and History.

JESSIE M. SHORT, B. A. (Beloit).
Instructor in Mathematics and Biology.

RALPH E. WILSON, PH. D. (University of Virginia).
Acting Director of the Observatory, and Instructor in Mathematics and Astronomy.

L. NORMAN ZARFOS.
Director of the Gymnasium, and Instructor in Physical Education.

FLORENCE E. BAKER, B. O. (Northwestern).
Assistant in Physical Education for Women, and Assistant Librarian.

ALFRED T. LARSON, B. S. (Carleton).
Assistant in Chemistry.

MORGAN F. LESLIE, B. A. (Fargo).
Assistant in Mathematics.

OTHER OFFICERS.

FREDERICK J. FAIRBANK, M. A. (Yale).
Treasurer.

ELEANOR J. GLADSTONE, B. A. (Carleton).
Librarian.

SHELBY W. MERRILL.
Chief Engineer, and Superintendent of Buildings and Grounds.

THERESA J. SCOTT.
Superintendent of Gridley Hall.

ROY H. COMPORT.
Secretary to the President.

ALICE M. PAGE, B. A. (Carleton).
Secretary to the Treasurer.

AMENDA JOHNSTONE TITTLE.
Assistant to the Superintendent of Gridley Hall.

Standing Committees of the Faculty.

1. *On course of study and admission:* PROFESSORS WEIGLE, EMERSON, HILL, WATSON and MR. GINGRICH.
2. *On religious life:* PRESIDENT COWLING, PROFESSORS HILL, EMERSON and WEIGLE.
3. *On library:* PROFESSORS EMERSON, EXNER, DUNGAY and MISS GLADSTONE.
4. *On athletics:* PROFESSORS HILL and KENT, MR. KENT and MR. ZARFOS.
5. *On student interests:* PROFESSOR WEIGLE and MR. GINGRICH.
6. *On alumni interests:* PROFESSORS EXNER, HILL, WATSON and MISS GLADSTONE.

ANNOUNCEMENTS.

Registration.

The committee will be in session at the Scoville Library on Monday and Tuesday, Sept. 12 and 13; on Monday from 2 to 5 P. M. and on Tuesday from 9 A. M. to 12:30 P. M. and from 2 to 5 P. M. Students are expected to complete their registration at the time indicated. A registration fee of two dollars will be charged those enrolling after Tuesday.

Candidates for admission to the college are urged to meet the committee on Monday if possible. It will facilitate registration if the candidates will send their certificates to the Registrar before Sept. 12.

Examinations.

Examinations for making up deficiencies and for entrance to the College will be held on Monday, September 19.

The Opening Exercises.

The opening exercises will be held in Willis Hall Chapel on Wednesday, Sept. 14, at 10:30 a. m. The address will be given by President Cowling. Regular recitations will begin at 1:40 p. m.

Faculty Changes.

Sabbatical furloughs this year fall to Professor Wilson, Dean, and Head of the Department of Mathematics and Astronomy, and to Professor Towne, Registrar, and Head of the Department of Economics and History. Miss Dean, instructor in German, will also be absent on leave. Their classes for the year will be taught by Dr. Ralph E. Wilson, Mr. Edgar E. Robinson and Miss Nelle Johns respectively. Professor Weigle will be the acting dean, and Acting Professor Hill will be the acting registrar for the coming year.

Dr. Wilson was graduated from Carleton in 1906, since which time he has been pursuing post graduate work in astronomy and mathematics at the University of Virginia. He has been elected to the honorary society of Phi Beta Kappa and for one year was president of the graduate student organization which exercises control over student government. During the year 1909-10 he was an instructor in astronomy and received his Ph. D. last June. In addition to his class work the coming year Dr. Wilson will be acting director of the

Observatory and one of the assistant editors of *Popular Astronomy*.

Mr. Robinson is a graduate of the University of Wisconsin; B. A. in 1908 and M. A. in 1910. He has completed two years of graduate study in history and economics. As an undergraduate he made a brilliant record both as a student and as a public speaker. He was elected a member of Phi Beta Kappa and several times represented the University in intercollegiate debate and oratorical contests, in recognition of which he was awarded membership in Delta Sigma Rho. During 1908-9 he was an assistant in American history and held a graduate fellowship during 1909-10. He has contributed several articles to current magazines.

Miss Johns is a graduate of Northwestern University and has spent a year in graduate study in Berlin, Germany. She has had six years experience teaching, part of which has been in college work.

On July 1, Mr. Harlan W. Page retired after 25 years continuous service to the college as secretary and treasurer, having been granted a Carnegie retiring allowance. Professor Frederick J. Fairbank, Head of the Latin Department, has been elected as his successor, having resigned his professorship to take up this work.

As acting head of the Department of Latin for the year 1910-11, Mr. Arthur L. Keith has been secured. Mr. Keith is a graduate of the University of Nebraska and has recently completed his graduate work in Greek and Latin at the University of Chicago. The degree of Ph. D., *magna cum laude*, will be granted him on Sept. 2. Mr. Keith has had many years experience teaching in important institutions. Last year he was the acting head of the Department of Greek in the University of South Dakota. During the summer quarter he has been an instructor in Greek at the University of Chicago and refuses re-appointment for the coming year in order to take up the work here.

On July 25 Prof. William L. Gray presented his resignation as director of the School of Music, having accepted a similar position at Olivet College. Miss Elizabeth Schuster, whose distinguished ability as a musician and success as a teacher were amply demonstrated during the past year while serving as acting head of the School of Music during Prof. Gray's absence on leave, has been appointed as his successor.

Mr. S. Howard Brown of Minneapolis will continue as instructor in voice.

The new school year will mark the beginning of our newly organized Department of Education. Heretofore the courses in education have been given partly by the professor of philosophy and partly by the instructor in Biblical literature. The new arrangement is designed to offer increased advantages to those who are preparing to teach and it is also hoped that it will prove to be an additional means of keeping the college and the high schools of the state in close touch.

Mr. Paul G. Miller, the acting head of the new department, is a graduate of the Oshkosh Normal School and of the University of Wisconsin. He has had a wide experience in public school work both as teacher and administrator, including three years teaching in the public schools of Wisconsin, three years as district superinten-

dent of schools, San German, Porto Rico, one year as chief of the division of supervision and statistics, department of education, P. R., and five years as principal of the Insular Normal School, P. R. He has also had considerable experience in conducting teacher's institutes.

For the past two years Mr. Miller has been an assistant in Romance languages at the University of Wisconsin, having charge of classes in Spanish. He refused an instructorship in Romance languages to accept the appointment here. During the coming year he will offer a course in Spanish in addition to his work in Education.

Miss Jessie M. Short, for the past year fellow in mathematics and assistant in biology, has been promoted to an instructorship in mathematics and biology.

Mr. Alfred T. Larson, who received his B. S. at Carleton in 1908, returns this year as assistant in chemistry. He will have charge of several laboratory sections.

Miss Florence E. Baker, a graduate of the Dennison (Iowa) Normal College and of the Cumnock School of Oratory, Northwestern University, has been appointed assistant in physical education for women, and assistant librarian.

Mr. Morgan F. Leslie, a graduate of Fargo College, has been appointed graduate fellow in mathematics. Miss Mary W. Clark, last year's fellow, has accepted an assistantship in astronomy at Mount Holyoke College.

Courses in Education.

Because of the reorganization of the Department of Education in connection with the coming of Acting Professor Miller, it seems desirable to make the following detailed announcement concerning courses in that department for the year 1910-11.

1. PSYCHOLOGY.—This course is also announced as Philosophy I.

It is prerequisite to all other courses in this department.

Sophomores, First Semester.—4 hours a week.

PROFESSOR WEIGLE.

2. EDUCATIONAL PSYCHOLOGY.—An application of principles and laws of psychology to education. A study is made of the facts and laws of mental development with special emphasis on the psychology of adolescence. Text-book: Bagley's Educational Process. Supplementary readings and exercises.

Sophomores, Second Semester.—2 hours a week.

ACTING PROFESSOR MILLER.

3. HISTORY OF EDUCATION.—After a rapid survey of the educational theories and systems of the Chinese, Greeks, Romans, and Middle Ages, a more detailed study of the subject is made from the period of the Renaissance to the present time. The work deals with movements rather than with men. Special emphasis is laid upon the history of secondary education since the Renaissance. Text-book: Monroe's History of Education. Supplementary readings and reports.

Juniors, First Semester.—4 hours a week.

ACTING PROFESSOR MILLER.

4. PRINCIPLES OF EDUCATION.—A study of the leading tendencies in modern educational thought pertaining to bases, aims,

values, and essential content of education; a study of the principles underlying the administration of the curriculum; an inquiry into the agencies that educate; a review of the fundamental psychological principles that underlie the teaching process. Text-book: Ruediger's *Principles of Education*. Supplementary readings.

Juniors, Second Semester.—2 hours a week.

ACTING PROFESSOR MILLER.

5. **CLASSROOM MANAGEMENT.**—A study of the factors and conditions that are essential in securing economy and efficiency in teaching. The preparation of the high school teacher; his responsibility; order and discipline; school virtues and school morals; hygienic factors; relation of the teacher to the superintendent, the principal, the other teachers and to the community; the recitation; incentives to study; technique of class instruction; tests of efficient teaching. Text-book: Bagley's *Classroom Management*. Supplementary readings and reports.

Seniors, First Semester.—2 hours a week.

ACTING PROFESSOR MILLER.

6. **ADMINISTRATION OF EDUCATION.**—A study of the organization and administration of education, with special emphasis on the Minnesota system. Text-book: Dutton & Snedden's *Administration of Public Education in the United States*. Supplementary readings and reports.

Seniors, First Semester.—2 hours a week.

ACTING PROFESSOR MILLER.

7. **SECONDARY EDUCATION.**—A course of special training for high school work. A discussion of the general aims, methods and current problems of secondary education; the place of the high school in our system of education; the program of studies; adolescence and co-education; the life of the school; method as applied to high school instruction; examinations, promotions and graduation; relation of the high school to colleges and universities and to the community. The particular features of the Minnesota system are given special attention. General aims, principles and problems are discussed by the class as a whole. Individual members of the class are required to make an independent study of the aim, content, value and methods of the group of related branches for the teaching of which they are making special preparation, and to present the results of such study to the class for discussion and criticism. Text-books: De Garmo's *Principles of Secondary Education*; Hollister's *High School Administration*; Brown's *The American High School*.

Seniors, Second Semester.—4 hours a week.

ACTING PROFESSOR MILLER.

8. **BIOLOGY TEACHERS' COURSE.**—A thorough review of Botany, Physiology, and Zoology in the classroom. A laboratory and field course designed to meet actual high school problems. An effort will be made to accommodate each student by assigning work adapted to his individual needs. An-

nounced also as Biology 12. Open to all Juniors and Seniors.
First Semester—4 hours credit.

ACTING PROFESSOR DUNGAY.

This department aims to give prospective teachers a thorough course of training in the theoretical and practical phases of teaching. It is concerned primarily with secondary education, and aims to give the professional training most needed by high school teachers. A student taking the twenty hours thus offered, exclusive of courses in special methods, will have completed the amount of professional training which is in many states a requirement for a teacher's certificate.

Lecture Course.

A course of five numbers is being arranged and will consist of lectures and recitals by prominent speakers and artists. An effort will be made to bring before the student body and the citizens of Northfield people of high standing in their respective professions, who will be able to make a real contribution to the intellectual, artistic, and spiritual atmosphere of the college and community. It is not designed to make money out of this undertaking, but as the college has no sufficient endowment to subsidize a lecture course it will be necessary to charge a fee of \$2.00 for the series. Detailed announcements will be made later.

The faculty lectures will this year be increased in number and will be given in connection with Thursday chapel exercises.

Changes in Tuition.

The rate of tuition in the college has been changed from \$20.00 to \$25.00 per semester. This change, however, is merely nominal as the incidental fee of \$5.00 which was formerly charged has been dropped, thus leaving the total charge for tuition at \$25.00 per semester as heretofore.

In the School of Music, however, some of the rates have been increased. For two private half hour lessons per week by Miss Schuster or Mr. Brown the rate will be \$36.00 per semester, instead of \$28.00; for one private half hour lesson per week by either of these instructors the rate will be \$22.50 per semester instead of \$17.00.

Campus and Building Improvements.

New cement walks have been laid from Music Hall to the Library, and from Laird to Gridley. The parking along this latter walk has been raised and widened. Considerable grading has been done north of Williams Hall.

Willis Hall has been wired for electric lights throughout and new coverings have been put on the backs of all the chair seats in Willis Hall Chapel. The wood work of the corridors has been repainted and a cement floor has replaced the former wooden one under the porch at the east entrance. Room C, which was formerly used by the Y. M. C. A., has been fitted up for a recitation room and will be used by the new Department of Education.

The Y. M. C. A. has been assigned the east room on the second floor of Williams hall. New radiation has been put in this room and

in the near future it will be properly furnished with seats, a piano, pictures, etc., by friends of the Christian association work.

Most of the rooms in Music Hall have been repapered and painted, as have also the corridors throughout. The outside porches have been raised and overhauled, and a new steam heating system replaces the unsatisfactory wood stoves formerly in use.

Additional shelf space has been provided in the Library both in the main stack room and in the reference room. The south room upstairs has been retinted.

Important additions and changes have been made in the Sayles-Hill Gymnasium. An additional tank for heating the water for the shower baths has been installed and a new terrazzo floor has replaced the former one of cement in the shower bath room. The water connections for the swimming pool have been somewhat rearranged and a partition has been built on the lower floor to shut off the locker room from the lower hall. These additions, together with the new hard wood floor which will be laid on top of the present floor during the Christmas vacation, will cost about \$1,500.00.

The new Central Heating and Lighting Plant has been connected with all the buildings, except Music Hall, for both heat and light, and will be put in regular operation with the opening of school. Current for lighting will be supplied by the Consumers Power Company at the switch board in the Power House and will be distributed to the various buildings by means of our own underground system.

Schedule of Recitations, First Semester, 1910-11.

8:00 TO 8:50 A. M.

COURSE.	INSTRUCTOR.	ROOM.	DAYS.
Bible 3	Prof. Hill	E	T
Biology 9	Prof. Dungay	LH	W T F S
Biology 3, Laboratory	Miss Short	LH	W T F S
Chemistry 1	Prof. Exner	LH	W T F S
Economics 1	Mr. Robinson	F	W T F S
Education 5	Prof. Miller	C	T
English 7	Miss Nichols	D	W T F S
French 3	Prof. Watson	E	W T F S
German 1, Sec. 1	Miss Johns	B	W T F S
Greek 1	Miss Holman	V	W T F S
Latin 1	Prof. Keith	A	W T F S
Mathematics 3, Sec. 1	Dr. Wilson	S	W T F S
Oratory 1, Sec. 1	Miss Lowe	Ch	T
Philosophy 6	Prof. Weigle	G	W T F S
Rhetoric 1, Sec. 1	Mr. McCandless	W	T
Rhetoric 3, Sec. 1	Mr. McCandless	W	T S
†Physics 1a	Prof. Kent	LH	W T F S
Phys. Ed. Fresh. Sec. 1	Miss Baker	GH	T

9:00 A. M. Chapel Exercises.

9:25 to 10:15 A. M. T. W. F. S.

9:50 to 10:40 A. M. Th.

COURSE.	INSTRUCTOR.	ROOM.	DAYS.			
Bible 1, Sec. 1	Prof. Hill	E				W
Chemistry 3, Laboratory	Mr. Larson	LH	T	T	F	S
Education 6	Prof. Miller	C				W
English 5	Prof. Emerson	D	T		T	F S
French 1, Sec. 1	Prof. Watson	E	T		T	F S S
German 3, Sec. 1	Miss Johns	B	T		T	F S
History 1	Mr. Robinson	F	T		T	F S S
History 1A	Mr. Kent	LH	T		T	F S S
*Latin 7	Prof. Keith	A	T		T	F S S
Mathematics 7	Mr. Gingrich	T	T		T	F S S
Mathematics 3, Sec. 2	Dr. Wilson	S	T		T	F S S
Music 3	Prof. Schuster	MH		W		S
Music 7	Miss Buswell	MH	T			F
Oratory 1, Sec. 2	Miss Lowe	Ch		W		
Philosophy 1, Sec. 1	Prof. Weigle	G	T		T	F S
†Physics 1	Prof. Kent	LH	T		T	S
Rhetoric 1, Sec. 2	Mr. McCandless	W		W		
Phys. Ed. Fresh., Sec. 2	Miss Baker	GH		W		
Spanish 1	Prof. Miller	C	T		T	F S

10:25 to 11:15 A. M. T. W. F. S.

10:50 to 11:40 A. M. Th.

COURSE.	INSTRUCTOR.	ROOM.	DAYS.			
Bible 1, Sec. 2	Prof. Hill	E		T		S
Bible 8	Prof. Hill	E	T	W		F
Biology 1, Lab., Sec. 1	Prof. Dungay	LH				F S
Biology 3	Miss Short	LH	T	W		
Chemistry 3	Prof. Exner	LH	T	W		F S
Education 5	Prof. Miller	C				T
Education 3	Prof. Miller	C	T	W		F S
English 3	Prof. Emerson	D	T	W		F S S
*Greek 3	Miss Holman	V	T	W		F S
Greek 11	Miss Holman	V			T	
History 3	Mr. Robinson	F	T	W		F S
Mathematics 1	Mr. Gingrich	S	T	W		F S S
Mathematics 5	Dr. Wilson	T	T	W		F S
Oratory 1, Sec. 3	Miss Lowe	Ch			T	
Philosophy 1, Sec. 2	Prof. Weigle	G	T	W		F S
Rhetoric 1, Sec. 3	Mr. McCandless	W		W		F
Rhetoric 3, Sec. 2	Mr. McCandless	W			T	
Phys. Ed., Fresh. Sec. 1	Miss Baker	GH			T	

11:25 A. M. to 12:15 P. M. T. W. F. S.
11:50 A. M. to 12:40 P. M. Th.

COURSE.	INSTRUCTOR.	ROOM.	DAYS.		
Bible 3	Prof. Hill	E		F	
Biology 1	Prof. Dungay	LH		S	
Biology 1, Lab.	Prof. Dungay	LH	T	W	T
Chemistry 3, Laboratory	Mr. Larson	LH	T	W	T
Education 6	Prof. Miller	C		F	
English 1	Miss Nichols	LH	T	W	T
English 9	Prof. Emerson	D	T	W	T
German 5, Sec. 1	Prof. Watson	E	T	W	T
Greek 11	Miss Holman	V		F	
Latin 3	Prof. Keith	A	T	W	T
Mathematics 1	Mr. Gingrich	S	T	W	T
Oratory 1, Sec. 1	Miss Lowe	Ch		F	
Oratory 3	Mr. McCandless	W		T	S
Philosophy 4	Prof. Weigle	G	T	W	T
* [†] Physics 3	Prof. Kent	LH	T	W	T
Rhetoric 1, Sec. 1	Mr. McCandless	W		F	

1:40 to 2:30 P. M. T. W. F. S.
2:00 to 2:50 P. M. Th.

COURSE.	INSTRUCTOR.	ROOM.	DAYS.		
Bible 5	Prof. Hill	G	T	W	T
Bible 1, Sec. 1	Prof. Hill	E	F		
Biology 5	Prof. Dungay	LH	T	W	T
Chemistry 1, Lab.	Mr. Larson	LH	T	W	T
Chemistry 5	Prof. Exner	LH	T	W	T
German 3, Sec. 2	Miss Johns	B	T	W	T
German 5, Sec. 2	Prof. Watson	E	T	W	T
*Greek 5 or 9	Miss Holman	V	T	W	T
Mathematics 1	Mr. Gingrich	S	T	W	T
Music 1	Miss Schuster	MH	T		F
Music 5	Miss Buswell	MH		W	S
Oratory 1, Sec. 2	Miss Lowe	Ch.			
[†] Physics 5	Prof. Kent	LH	T	W	T
Rhetoric 1, Sec. 2	Mr. McCandless	W			S

2:40 to 3:30 P. M. T. W. F. S.
3:00 to 3:50 P. M. Th.

COURSE.	INSTRUCTOR.	ROOM.	DAYS.	
*Art History	Miss Holman	V	T	W T F
*Astronomy 2	Dr. Wilson	T	T	W T F
Biology 5, Laboratory	Prof. Dungay	LH		T F
Biology 1, Laboratory Sec. 2	Prof. Dungay	LH	T	W
†Chemistry 5, Lab.	Prof. Exner	LH	T	W T F
Economics 5	Mr. Robinson	F	T	W T F
French 1, Sec. 2	Prof. Miller	E	T	W T F
German 1, Sec. 2	Miss Johns	B	T	W T F
Latin 1a	Prof. Keith	A	T	W T F
Mathematics 1a	Mr. Leslie	S	T	W T F
Oratory 1, Sec. 3	Miss Lowe	Ch.		S
Phys. Ed. Soph., Sec. 2	Miss Baker	GH		T
Phys. Ed. Jun., Sec. 1	Miss Lowe	GH		
Phys. Ed. Jun., Sec. 2	Miss Lowe	GH		F
Rhetoric 3, Sec. 2	Mr. McCandless	W		S

3:40 to 4:30 P. M. T. W. F.
4:00 to 4:50 P. M. Th.

COURSE.	INSTRUCTOR.	ROOM.	DAYS.
Phy . Ed., Freshmen	Mr. Zarfos	Gym	T T F
Phys Ed., Soph., Sec. 1	Miss Baker	GH	T
Phys Ed., Soph., Sec. 2	Miss Baker	GH	W
Phys. Ed., Jun., Sec. 2	Miss Lowe	GH	T F
Phys. Ed., Fresh., Lect.	Miss Lowe	GH	T

4:40 to 5:30 P. M. T. W. F.
5:00 to 5:50 P. M. Th.

COURSE.	INSTRUCTOR.	ROOM.	DAYS.
Phys. Ed., Jun.-Soph.	Mr. Zarfos	Gym	T T F
Phys. Ed., Fr., Sec. 2	Miss Baker	GH	T
Phys. Ed., Fr., Sec. 3	Miss Baker	GH	W F
Phys. Ed., Soph., Sec. 1	Miss Baker	GH	T
Phys. Ed., Soph., Lect.	Miss Lowe	GH	T

* Hours to be arranged.

† Laboratory hours to be arranged.

Rooms A to I are in Willis Hall; LH in Laird Science Hall; S and T in the Observatory; V and W in the Library; Ch. Chapel; MH, Music Hall; Gym., Gymnasium; GH, Gridley Hall.

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1911/12

VOL. VIII

NO. 1

Carleton College

BULLETIN

ANNOUNCEMENT NUMBER

September, 1911

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NORTHFIELD, MINN.

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THE FACULTY AND OTHER OFFICERS.*

FACULTY.

DONALD JOHN COWLING, PH. D. (Yale), D. D. (Baker).
President on the Martha Walker Wilkinson Foundation, and Professor of Philosophy.

HERBERT COUPER WILSON, PH. D. (Cincinnati University).
Director of the Observatory, and Professor of Mathematics and Astronomy.

ISABELLA WATSON, B. L. (Carleton).
Professor of French and German.

FRANZ FREDERICK EXNER, PH. D. (University of Pennsylvania).
Professor of Chemistry.

EZRA THAYER TOWNE, PH. D. (University of Halle-Wittenberg).
Professor of Economics and History.

LUTHER ALLAN WEIGLE, PH. D. (Yale).
Dean, and Professor of Mental and Moral Philosophy on the John Chandler Williams Foundation.

MARY ALICE EMERSON, M. A. (Wellesley).
Professor of English. (Absent on leave, 1911-12).

WILLIAM L. TENNEY, D. D. (Oberlin).
Professor of History. (Acting Assistant to the President, 1911-12).

HERBERT THOMPSON ARCHIBALD, PH. D. (Johns Hopkins).
Assistant Professor of Latin and Greek.

I. M. COCHRAN, M. A. (University of Michigan).
Assistant Professor of English and Public Speaking.

NEIL STANLEY DUNGAY, B. A. (University of Minnesota).
Acting Professor of Biology.

CURVIN HENRY GINGRICH, M. A. (Dickinson).
Assistant Professor of Mathematics. (Absent on leave, 1911-12).

FRED BURNETT HILL, B. D. (Hartford).
Acting Professor of Biblical Literature.

ARTHUR L. KEITH, PH. D. (University of Chicago).
Acting Professor of Latin on the Horatio Nelson Brinsmade Foundation, and Acting Professor of Greek.

CARLETON VOLNEY KENT, M. S. (University of Iowa).
Acting Professor of Physics and Geology.

*Three grades of faculty ranking are recognized: professor, assistant professor, and instructor. An acting professor is an assistant professor acting as the head of a department. Assistants in instruction are not regarded as members of the faculty.

Professors are arranged in the order of appointment; all others alphabetically.

PAUL G. MILLER, M. A. (University of Wisconsin).

Acting Professor of Education, and Instructor in Romance Languages.

CHARLES SUTPHIN PENDLETON, M. A. (Oberlin).

Acting Professor of the English Language and Literature.

ELIZABETH SCHUSTER.

Director of the School of Music, and Acting Professor of Piano, Organ, and Composition.

S. HOWARD BROWN.

Instructor in Voice.

FREDERIC CURTIS BUTTERFIELD, B. A. (Harvard).

Instructor in Piano, Theory, and History of Music.

CAROLINE DEAN, M. A. (Doane).

Instructor in German.

MAURICE KENT, B. S. (University of Iowa).

Assistant Dean, Director of Athletics, and Instructor in Physical Education.

JESSIE M. LAW.

Instructor in Violin.

EDNA EUGENIA LOWE, B. O. (Northwestern).

Instructor in Elocution and Physical Education for Women.

HOMER S. MYERS, M. A. (Baker).

Instructor in Mathematics.

JESSIE M. SHORT, M. A. (Carleton).

Resident Head of Gridley Hall, and Instructor in Mathematics.

L. NORMAN ZARFOS.

Director of the Gymnasium, and Instructor in Physical Education.

FLORENCE E. BAKER, B. O. (Northwestern).

Assistant in Physical Education for Women, and Assistant Librarian.

ALFRED T. LARSON, B. S. (Carleton).

Assistant in Chemistry.

OTHER OFFICERS.

FREDERICK J. FAIRBANK, M. A. (Yale).

Treasurer.

ELEANOR J. GLADSTONE, B. A. (Carleton).

Librarian.

THERESA J. SCOTT.

Superintendent of Gridley Hall.

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Superintendent of Nourse Cottage.

MARGARET LIVINGSTON.

Assistant Librarian.

Alice M. Page, B. S. (Carleton).
Secretary to the Treasurer.

CHARLES J. PISAR.
Secretary to the President.

AMENDA JOHNSTONE TITTLE.
Assistant to the Superintendent of Gridley Hall.

Standing Committees of the Faculty.

1. *On course of study and admission:* PROFESSORS WEIGLE, WILSON, TOWNE, HILL, and WATSON.
2. *On religious life:* PROFESSORS HILL, EXNER, and MISS SHORT.
3. *On library:* PROFESSORS EXNER, TOWNE, DUNGAY, PENDLETON, and MISS GLADSTONE.
4. *On athletics:* PROFESSORS HILL and KENT, MR. KENT and MR. ZARFOS.
5. *On student interests:* PROFESSORS DUNGAY and KEITH.
6. *On alumni interests:* PROFESSORS WILSON, EXNER, HILL, WATSON, and MISS GLADSTONE.

ANNOUNCEMENTS.

Registration.

The committee will be in session at the Scoville Memorial Library on Monday and Tuesday, Sept. 11 and 12; on Monday from 2 to 5 P. M. and on Tuesday from 9 A. M. to 12:30 P. M. and from 2 to 5 P. M. Students are expected to complete their registration at the time indicated. A registration fee of two dollars will be charged those enrolling after Tuesday.

Candidates for admission to the college are urged to meet the committee on Monday if possible. It will facilitate registration if the candidates will send their certificates to the Registrar before Sept. 9.

Examinations.

Examinations for making up deficiencies and for entrance to the College will be held on Monday, September 18.

The Opening Exercises.

The opening exercises will be held in Willis Hall Chapel on Wednesday, Sept. 13, at 10:30 a. m. The address will be given by the Dean, Professor Weigle. Regular recitations will begin at 1:40 p. m.

Faculty Changes.

The duties connected with the offices of Dean and Dean of Women respectively have been somewhat rearranged for the coming year. Professor Wilson retires from the Deanship to devote all his time to the department of Mathematics and Astronomy and to the editing of *Popular Astronomy*. Professor Weigle, who has been the

acting Dean for the past year, has been elected Dean, and will have charge of the administration of all the official regulations of the college. Miss Emerson, formerly Dean of Women and Professor of English, retired at her own request from the active service of the college last June, but by special vote of the trustees was granted the privileges of a sabbatical year, thus continuing her official connection with the college until June 1912. Miss Short as resident head of Gridley Hall, will have charge of the social life of the women living there.

Professor Pendleton will be in charge of the department of English and the department of Rhetoric and Public Speaking, and will be assisted by Professor I. M. Cochran who comes to Carleton from Northwestern University. The courses for 1911-12 are announced elsewhere in this bulletin. Professor Cochran is a graduate of the University of Michigan and has received his master's degree from that institution. He has had fifteen years of teaching experience and during the past three years has had entire charge of the debating teams at Northwestern University.

Professor Towne, who has been absent on sabbatical furlough during the past year, will again take up the work of his department at the opening of the new year. On account of the pressure of departmental work he has been relieved of his duties as registrar, which will be in charge of Mr. Fairbank during 1911-12.

Since commencement Miss Holman has resigned as instructor in Greek. It is the desire of the college to place added emphasis upon the study of the classics and with this in mind Professor Keith has been placed in charge of the departments of Latin and Greek and will be assisted by Dr. Herbert T. Archibald. Dr. Archibald is a graduate of Dalhousie College of Nova Scotia and received the degree of Ph. D. at Johns Hopkins in 1901. He was for eight years Professor of Latin and Greek in Occidental College and was last year acting Professor of Latin and Greek in Wittenberg College.

Dr. R. C. Mullenix, whose election as assistant professor of Biology to act in Professor Dungay's absence during the year 1911-12 as was previously announced, asked to be released from his temporary appointment here to accept the headship of the department of Biology in Lawrence College. In view of his resignation Professor Dungay will postpone the further graduate work he had originally planned and will be in charge of his department during the coming year. Biology courses for 1911-12 are announced elsewhere in this bulletin.

Professor C. H. Gingrich will be absent during 1911-12 to complete his graduate work at the University of Chicago, but will return to Carleton the year following. During his absence Mr. Homer S. Myers will assist Professor Wilson in the department of Mathematics. Mr. Myers is a graduate of Baker University and has completed two years of graduate work in mathematics at the University of Chicago. He has had many years of successful teaching experience.

Miss Dean, who has been pursuing special studies in Germany during 1910-11, returns this year as instructor in German.

The vacancy in the school of music caused by the resignation of Miss Buswell has been filled by the appointment of Mr. F. C. Butterfield who received his Bachelor's degree at Harvard in 1905. During the following two years he studied with prominent artists in Boston, and from 1907 to 1910 was instructor in piano, harmony, counterpoint and musical history in Morningside College. He has spent the past year in special study in Europe.

The remaining members of the faculty will be the same as last year.

Lectures.

A course of five numbers has been arranged and will consist of the following attractions: (1) Concert by LeBrun Grand Opera Company, (2) Recital by Frederick Martin, (3) Lecture by S. Park Cadman, (4) Recital by Katherine Oliver, (5) Lecture by Professor Newens. Detailed announcement together with dates will be made later.

Dr. Benjamin W. Bacon, professor of New Testament in Yale Divinity School, will give two lectures, one upon "The Book of Daniel" and the other upon "Herod the Hellenizer and Monuments of His Age" (illustrated). These lectures will probably be given on the afternoon and evening of October 16. They are provided for by the income of endowed lecture funds and for this reason no admission will be charged.

Professor E. W. Clark, director in Rome of the Bureau of University travel, will give two lectures, one entitled "Timgad, the Pompeii of North Africa," and the other "Through Picturesque Sicily." These lectures will be illustrated with slides made from pictures taken by Mr. Clark.

One of the most important musical events of the year has been arranged for Wednesday evening, November 8, at which time Mrs. Fannie Bloomfield Zeisler will give a piano recital.

The faculty lectures will be continued as last year in connection with Thursday chapel exercises.

Observation Work and Practice Teaching.

By special arrangement with the Superintendent and the Board of Education of the city schools, seniors, who are studying pedagogy and who intend to teach, will be given an opportunity to do observation work and practice teaching in the Northfield city high school.

COURSES IN BIOLOGY.

Those uncertain as to the content of Biology courses are asked to consult with Prof. Dungay before registering. The following Biology courses will be offered instead of those listed in the catalogue:

3. **GENERAL BIOLOGY.**—This course aims to develop the general principles of biology with especial emphasis upon physiology. Both animal and plant materials will be used in illustration. Those who wish instruction in physiology will find that this course replaces the former course in physiology. Open to all

who have not had course 3. Work will extend over both semesters. Credit for one semester will not be given.

5. COMPARATIVE ANATOMY will be given as a year's course instead of covering only the first semester.
7. EMBRYOLOGY will begin in the first semester. It will be given as a year's course if desired by a sufficient number. If given only as a semester course, work for the second semester will be announced later.

COURSES IN ENGLISH.

English Literature.

3. SHAKESPEARE.—4 hours. *Juniors and Seniors.*
ASSISTANT PROFESSOR COCHRAN.
5. THE ROMANTIC MOVEMENT IN ENGLISH LITERATURE.—4 hours.
Juniors and Seniors. ASSISTANT PROFESSOR COCHRAN.
7. INTRODUCTION TO CHAUCER, SPENSER, AND MILTON.—2 hours.
Juniors and Seniors. ACTING PROFESSOR PENDLETON.
Course 7 must be followed in the second semester by its continuation, course 8.
9. PROSE FICTION: THE NOVEL.—4 hours. *Juniors and Seniors.*
ACTING PROFESSOR PENDLETON.
11. THE ESSAY.—2 hours. *Sophomores, Juniors, and Seniors.*
Students electing this course are urged to elect also Rhetoric 5.
ACTING PROFESSOR PENDLETON.

Composition and Rhetoric.

1. COMPOSITION.—2 hours. *Required of Freshmen.*
ACTING PROFESSOR PENDLETON (2 sections).
ASSISTANT PROFESSOR COCHRAN (2 sections).
5. THE FORMS OF PUBLIC ADDRESS.—2 hours. *Sophomores, Juniors, and Seniors.*
Students electing this course are urged to elect also English Literature II.
ACTING PROFESSOR PENDLETON.
7. NEWSPAPER WRITING.—2 hours. *Sophomores, Juniors, and Seniors.*
ACTING PROFESSOR PENDLETON.
9. THE LIFE OF LANGUAGE.—2 hours. *Sophomores, Juniors and Seniors.* This course, an introduction to the scientific study of language, must precede Course 10, in the second semester, The History of the English Language.
ACTING PROFESSOR PENDLETON.

Public Speaking.

1. A GENERAL COURSE IN PUBLIC SPEAKING.—2 hours. *General elective.* MISS LOWE.
3. INTERPRETATIVE READING.—2 hours. *Sophomores, Juniors, and Seniors.* MISS LOWE.
5. ARGUMENTATION AND DEBATE.—2 hours. *Sophomores, Juniors, and Seniors.* ASSISTANT PROFESSOR COCHRAN.
6. ORATORY.—2 hours. *Sophomores, Juniors, and Seniors.* ASSISTANT PROFESSOR COCHRAN.

Schedule of Recitations, First Semester, 1911-12.

8:00 to 8:50 A. M.

COURSE.	INSTRUCTOR.	ROOM.	DAYS.
Chemistry I	Prof. Exner	LH	W T F S
Economics I	Prof. Towne	F	W T F S
English 7	Prof. Pendleton	W	W F
French 3	Prof. Watson	E	W T F S
Geology	Prof. Kent	LH	T T S
German I, Sec. I	Miss Dean	B	W T F S
Greek 3	Dr. Archibald	V	W T F S
Latin I	Prof. Keith	A	W T F S
Mathematics 3, Sec. I	Mr. Myers	S	W T F S
Philosophy 6	Prof. Weigle	G	W T F S
Public Speaking I, Sec. I	Miss Lowe	C	T
Public Speaking 5	Prof. Cochran	D	W F
Public Speaking 6	Prof. Cochran	D	T S
Rhetoric I, Sec. I	Prof. Pendleton	W	T
Rhetoric I, Sec. 2	Prof. Cochran	D	T
Rhetoric 9	Prof. Pendleton	W	T S

9:00 A. M. Chapel Exercises.

9:25 to 10:15 A. M. T. W. F. S.

9:50 to 10:40 A. M. Th.

COURSE.	INSTRUCTOR.	ROOM.	DAYS.			
Bible 1, Sec. 1	Prof. Hill	B				W
Chemistry 3, Laboratory	Mr. Larson	LH	T	T	F	S
English 3	Prof. Cochran	D	T	T	F	S
English 11	Prof. Pendleton	W	T		F	
French 1, Sec. 1	Prof. Watson	E	T		F	S
German 3, Sec. 1	Miss Dean	B	T	T	F	S
Greek 9	Dr. Archibald	V				W
History 1	Prof. Towne	F	T	T	F	S
Mathematics 7	Prof. Wilson	S	T	T	F	S
Mathematics 3, Sec. 2	Mr. Myers	T	T	T	F	S
Music 3	Prof. Schuster	MH				S
Music 7	Mr. Butterfield	MH	T			F
Philosophy 1, Sec. 1	Prof. Weigle	G	T	T	F	S
Physics 1	Prof. Kent	LH	T	T	F	
Public Speaking 1, Sec. 2	Miss Lowe	C			W	
Public Speaking 1, Sec. 3	Miss Lowe	C	T			F
Public Speaking 3	Miss Lowe	C				T
Rhetoric 1, Sec. 3	Prof. Pendleton	W			W	
Rhetoric 1, Sec. 4	Prof. Cochran	D			W	
Rhetoric 5	Prof. Pendleton	W				T
Spanish 1	Prof. Miller	A	T	T	F	S

10:25 to 11:15 A. M. T. W. F. S.

10:50 to 11:40 A. M. Th.

COURSE.	INSTRUCTOR.	ROOM.	W	S
Bible 1, Sec. 2	Prof. Hill	B		
Bible 3	Prof. Hill	B	T	F
Chemistry 3	Prof. Exner	LH	T	F
English 5	Prof. Cochran	D	T	F
English 9	Prof. Pendleton	W	T	F
French 5	Prof. Watson	E	T	F
Greek 7	Dr. Archibald	V	T	F
Greek 9	Dr. Archibald	V		T
History 5	Prof. Towne	F	T	F
Mathematics 1	Mr. Myers	S	T	F
Mathematics 5	Prof. Wilson	T	T	F
Philosophy 1, Sec. 2	Prof. Miller	C	T	F
Public Speaking 1, Sec. 1	Miss Lowe	C		T
Rhetoric 1, Sec. 1	Prof. Pendleton	W		T
Rhetoric 1, Sec. 2	Prof. Cochran	D		T

II:25 A. M. to 12:15 P. M. T. W. F. S.

11:50 A. M. to 12:40 P. M. Th.

COURSE.	INSTRUCTOR.	ROOM.	DAYS.	
Bible 1, Sec. 1	Prof. Hill	B		F
Bible 6	Prof. Hill	D	T	W
Biology 3	Prof. Dungay	LH	T	W
Chemistry 3, Laboratory	Mr. Larson	LH	T	W
Education 5	Prof. Miller	C	T	W
German 3, Sec. 3	Miss Dean	B	T	W
*German 7a	Prof. Watson	E	T	W
Latin 3	Prof. Keith	A	T	W
Mathematics 1	Prof. Wilson	S	T	W
Mathematics 1a, Sec. 2	Miss Short	T	T	W
Philosophy 4	Prof. Weigle	G	T	W
Public Speaking Sec. 2	Miss Lowe	C		F
Rhetoric 1, Sec. 3	Prof. Pendleton	W		F
Rhetoric 1, Sec. 4	Prof. Cochran	D		F

1:40 to 2:30 P. M. T. W. F. S.

2:00 to 2:50 P. M. Th.

COURSE.	INSTRUCTOR.	ROOM.	ROOM.	DAYS.
Astronomy 2	Prof. Wilson	T	T	W T F
Bible 5	Prof. Hill	G	T	W T F
†Biology 5	Prof. Dungay	LH	T	W T F
Chemistry 1, Lab.	Mr. Larson	LH	T	W T F
Chemistry 7, Lab.	Prof. Exner	LH	T	W T F
Education 3	Prof. Miller	C	T	W T F
German 3, Sec. 2	Miss Dean	B	T	W T F
*German 7b	Prof. Watson	E	T	W T F
Greek 1	Dr. Archibald	V	T	W T F
History 7	Prof. Towne	F	T	W T F
Latin 1b	Prof. Keith	A	T	W T F
Mathematics 1	Mr. Myers	S	T	W T F
Mechanical Drawing	Prof. Kent	LH	W	F
Music 1	Prof. Schuster	MH	T	F
Music 5	Mr. Butterfield	MH	W	S
Physics 1a	Prof. Kent	LH	T	T

2:40 to 3:30 P. M. T. W. F. S.

3:00 to 3:50 P. M. Th.

COURSE.	INSTRUCTOR.	ROOM.	ROOM.	DAYS.
Art History	Dr. Archibald	V	T	W T F
†Biology 7	Prof. Dungay	LH	T	W T F
Chemistry 7, Lab.	Prof. Exner	LH	T	W T F
Economics 3	Prof. Towne	F	T	W T F
French 1, Sec. 2	Prof. Miller	E	T	W T F
German 1, Sec. 2	Miss Dean	B	T	W T F
Latin 5	Prof. Keith	A	T	W T F
Mathematics 1a, Sec. 1	Miss Short	S	T	W T F
Mechanical Drawing	Prof. Kent	LH	W	F
Phys. Ed. Fresh., Sec. 2	Miss Baker	GH	W	F
Phys. Ed. Soph., Sec. 1	Miss Baker	GH	T	T
Phys. Ed. Jun., Sec. 1	Miss Lowe	Church	T	F
†Physics 3	Prof. Kent	LH	T	T

*German 7a is for students who have had three years of German; 7b for those who have had two years.

†Hours to be arranged.

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3:40 to 4:30 P. M. T. W. F.
4:00 to 4:50 P. M. Th.

COURSE.	INSTRUCTOR.	ROOM.	DAYS.	
Chemistry 7, Lab.	Prof. Exner	LH	T	W T F
Phys. Ed., Freshmen	Mr. Zarfos	Gym		W T
Phys. Ed. Fresh., Sec. 1	Miss Baker	GH	T	T
Phys. Ed., Soph., Sec. 3	Miss Baker	GH		W F
Phys. Ed., Soph., Lect.	Miss. Lowe	GH		T
Phys. Ed., Soph.	Mr. Zarfos	Gym	T	F
Phys. Ed., Jun., Sec. 2	Miss Lowe	Church	T	F
Rhetoric 7	Prof. Pendleton	W		W

4:40 to 5:30 P. M. T. W. F.
5:00 to 5:50 P. M. Th.

COURSE.	INSTRUCTOR.	ROOM.	DAYS.	
Phys. Ed., Jun.	Mr. Zarfos	Gym	T	T F
Phys. Ed., Fresh., Lect.	Miss Lowe	GH		T
Phys. Ed., Fresh., Sec. 3	Miss Baker	GH	W	F
Phys. Ed., Soph., Sec. 2	Miss Baker	GH	T	T
Phys. Ed., Soph.	Mr. Zarfos	Gym		W
Rhetoric 7	Prof. Pendleton	W		W

†Hours to be arranged.

Rooms A to I are in Willis Hall; LH in Laird Science Hall; S and T in the Observatory; V and W in the Library; Ch. Chapel; Church, Congregational Gymnasium; MH, Music Hall; Gym., Gymnasium; GH, Gridley Hall.

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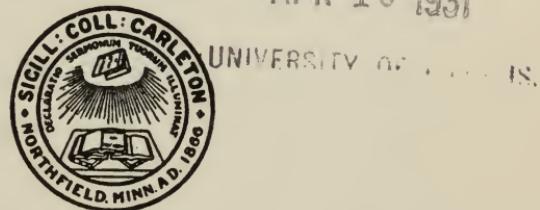
Carleton College

BULLETIN

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NORTHFIELD, MINN.

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THE FACULTY AND OTHER OFFICERS*

FACULTY

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Director of the Observatory, and Professor of Mathematics and Astronomy.

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Professor of Biblical Literature.

EDWARD STRONG.

Director of the Conservatory of Music, and Professor of Voice.

FREDERICK LOCKE LAWRENCE, MUS. B.

Professor of Piano, Organ and Composition.

AXEL E. VESTLING, PH. D. (Yale).

Professor of German.

CURVIN HENRY GINGRICH, PH. D. (University of Chicago).

Associate Professor of Mathematics and Astronomy.

*Three grades of faculty ranking are recognized: professor, assistant professor, and instructor. An associate professor is a full professor not in charge of a department. An acting professor is an assistant professor acting as the head of a department. Assistants in instruction are not regarded as members of the faculty.

Professors are arranged in the order of appointment; all others alphabetically.

HERBERT THOMPSON ARCHIBALD, PH. D. (Johns Hopkins).
Assistant Professor of Latin and Greek.

ISAAC MERTON COCHRAN, M. A. (University of Michigan).
Assistant Professor of English and Public Speaking.

NEIL STANLEY DUNGAY, B. A. (University of Minnesota).
Acting Professor of Biology. (Absent on leave, 1912-13).

ARTHUR LESLIE KEITH, PH. D. (University of Chicago).
Acting Professor of Latin on the Horatio Nelson Brinsmade Foundation, and Acting Professor of Greek.

CARLETON VOLNEY KENT, M. S. (University of Iowa).
Acting Professor of Physics and Geology.

MAURICE KENT, B. S. (University of Iowa).
Director of Athletics, and Assistant Professor of Physical Education.

CHARLES SUTPHIN PENDLETON, M. A. (Oberlin).
Acting Professor of English.

L. NORMAN ZARFOS.
Director of the Gymnasium, and Assistant Professor of Physical Education.

WILLIAM R. ANDERSON, B. A. (Oberlin).
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ELEANOR JANE GLADSTONE, B. A. (Carleton).
Librarian.

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EDNA EUGENIA LOWE, B. O. (Northwestern).
Instructor in Elocution and Physical Education for Women.

ALMEDA FRANCES MANN.
Instructor in Piano.

GERTRUDE MIRIAM POTWIN.
Instructor in Violin.

JESSIE M. SHORT, B. A. (Beloit), M. A. (Carleton).
Resident Head of Gridley Hall, and Instructor in Mathematics.

RAY ADDISON SIGSBEE, PH. D. (University of Heidelberg).
Instructor in German and English.

ETHEL MARGARET ADAMS, B. A. (Carleton).
Assistant in Biology.

MARGARET LIVINGSTON.

Assistant Librarian.

MYRTLE L. RICHMOND, B. A. (Smith), M. A. (University of Denver).

Fellow in Mathematics and Astronomy.

OTHER OFFICERS

MAY ABBOTT.

Superintendent of Nourse Cottage.

ANNA J. HANDEYSIDE.

Secretary to the President.

ALICE MARIA PAGE, B. S. (Carleton).

Secretary to the Treasurer.

THERESA JANE SCOTT.

Superintendent of Gridley Hall.

ALICE McELRATH.

Assistant to the Superintendent of Gridley Hall.

Standing Committees of the Faculty

1. *On course of study and admission:* PROFESSORS WEIGLE, WILSON, TOWNE, WATSON, STRONG, and GINGRICH.
2. *On religious life:* PROFESSORS HILL, EXNER, and MISS SHORT.
3. *On library:* PROFESSORS EXNER, TOWNE, PENDLETON, and MISS GLADSTONE.
4. *On athletics:* PROFESSORS HILL, ZARFOS, C. V. KENT and M. KENT.
5. *On student interests:* PROFESSORS GINGRICH and KEITH.
6. *On alumni interests:* PROFESSORS WILSON, EXNER, HILL, WATSON, MR. HEADLEY and MISS GLADSTONE.

ANNOUNCEMENTS

Registration

The committee will be in session at Laird Hall on Monday and Tuesday, Sept. 9 and 10; on Monday from 2 to 5 p. m. and on Tuesday from 9 A. M. to 12:30 p. m. and from 2 to 5 p. m. Students are expected to complete their registration at the time indicated. A registration fee of two dollars will be charged those enrolling after Tuesday.

Candidates for admission to the college are urged to meet the committee on Monday if possible. It will facilitate registration if the candidates will send their certificates to the Registrar before Sept. 7.

Examinations

Examinations for making up deficiencies and for entrance to the College will be held on Monday, September 16.

The Opening Exercises

The opening exercises will be held in Willis Hall Chapel on Wednesday, Sept. 11, at 10:30 a. m. The address will be given by President Cowling. Regular recitations will begin at 1:40 p. m.

Faculty Changes

Professor Curvin H. Gingrich, who during 1911-12 was a graduate student at the University of Chicago, returns this year as associate professor of mathematics and astronomy.

Dr. Axel E. Vestling has been elected professor of German. After graduating from Lindsborg College, Kansas, Mr. Vestling continued his graduate work at Yale University from which institution he received the degree of Ph. D. He has also studied at the University of Berlin. He has had many years of successful teaching experience, including Dartmouth and Yale, having been connected with the German department of the latter institution for the past six years.

Professor Neil S. Dungay has been granted a leave of absence to study at the University of Chicago during 1912-13, but will return to Carleton the following year. During his absence, Mr. James Ewing will have charge of the department of biology. Mr. Ewing is a graduate of the University of Aberdeen, Scotland where he obtained the degrees of M. A. and B. Sc. It is planned to expand the biology department after another year so that the full time of two instructors will be required.

Dr. Ray A. Sigsbee will be instructor in German and English. He is a graduate of Knox College, B. A. 1905, and received the degree of Ph. D. from the University of Heidelberg in 1912.

Mr. Edward Strong, who comes as director of the Conservatory of Music and professor of voice, has been a member of the quartet of the Fifth Avenue Presbyterian Church, New York City. As director, Mr. Strong brings not only distinguished ability as a singer, and the experience of years of successful teaching, but in addition a wide and comprehensive knowledge of conservatories and their methods. In point of ability, experience, familiarity with other schools and wide acquaintance among musical people, Mr. Strong is exceptionally well qualified to direct the important work which Carleton seeks to do in the musical world of the Northwest.

Mr. Frederick Locke Lawrence, who has been elected professor of

piano, organ and composition, brings to the Conservatory of Music wide experience as pianist, teacher, composer and conductor. Graduating from the Northwestern School of Music, Mr. Lawrence for three years taught piano in the Northwestern University School of Music. He was for five years director of Claverack College Conservatory, and then accepted an appointment as director and professor of piano in the Carleton School of Music. From Carleton Mr. Lawrence was called to the University of Illinois, where he remained seven years. For the past year Mr. Lawrence has been in Berlin pursuing a course of study in piano, cello and composition.

Miss Gertrude Miriam Potwin has been secured as head of the violin department. After some time spent as a student at Oberlin she studied for a year in Leipsic Conservatory. To her original thorough training in the Joachim method, Miss Potwin has since added a careful study of the excellently violinistic French and Belgian schools; also notably that of Sevcik. The Hoch Schule course has been supplemented by work with Johann Krafft of the Boston Symphony Orchestra, George Lehman, now in Berlin, and Edward Herrmann, formerly Imperial Russian Concertmeister. In 1890 Miss Potwin took charge of the violin work at Carleton remaining five years.

Miss Almeda Frances Mann, who has been appointed instructor in piano, was educated in the Cincinnati College of Music, the Chicago Conservatory of Music, and the Chicago Musical College. From 1896 to 1898 Miss Mann was instructor at Fort Worth University, from 1899 to 1901 at the Carleton School of Music, and from 1901 to 1906 at the University of Illinois. Since 1906 Miss Mann has been teaching in Seattle, Washington.

Mr. William R. Anderson, a graduate of Oberlin, has been elected to the office of registrar.

Gridley Hall Remodeled

During the summer about \$30,000 has been spent in remodeling Gridley Hall. The dining room, kitchen, and maids' rooms have been placed on the ground floor and the space formerly occupied by these rooms has been utilized for dormitory purposes, so that Gridley Hall is now able to accommodate about 140 women students. The building has been replumbed throughout and the old steam heating equipment has been replaced by new. The bath rooms have been refitted and redecorated and shower baths have been added. By means of reservoirs the city water will be treated and softened for bathing purposes. Steel ceilings have been placed in all the halls and the entire

dormitory has been painted and varnished. An electric passenger elevator has also been installed.

The kitchen is furnished with all modern appliances. Gas is used for both cooking and baking.

The dining room is attractively decorated in fumed oak. The floor is of deep red terra cotta tile and the ceiling is paneled.

Students desiring to entertain guests at Gridley Hall must make arrangements before hand with Miss Short. The charge will be \$1.00 per day after the first meal.

These changes have been much more extensive than was contemplated when work was begun in June and a longer time has been required for their completion than at first planned. Nevertheless the building will be open for occupancy at the beginning of school on Monday, Sept. 9.

Lectures

A course of five numbers has been arranged and will consist of the following attractions:

- (1) Nov. 7, David Bispham, recital.
- (2) Nov. 29, Kitty Cheatham, reader.
- (3) Jan. 27, Mary Hallack, piano recital.
- (4) March 6, Dick Trio, (violin, cello, piano).
- (5) Jacob A. Riis, (date to be announced later).

Perhaps the most important musical event of the year will occur Nov. 7, when Mr. David Bispham, universally conceded to be the greatest of American baritones, will appear in recital. Mr. Bispham's position in the musical world is unique, and his ideals and achievements have had a vital influence upon the development of music in America.

In addition to the regular lecture course the Conservatory of Music offers the following concerts: Oct. 11, Conservatory Faculty concert; Dec. 11, "Messiah," Northfield Choral Union and soloists. A May festival will also be given and it is expected that the services of one of the best symphony orchestras together with notable soloists and the Northfield Choral Union will appear on this occasion.

Baroness Bertha von Suttner, of Vienna, Austria, will lecture the latter part of September on "Peace," and Kate Upson Clark, of Brooklyn, will give her lecture on "Personality in Life and Fiction" some time in October. The exact dates of both these lectures will be given later. They are provided for by the income from endowment lecture funds and for this reason no admission will be charged.

Preliminary Schedule of Recitations, First Semester, 1912-13.

8:00 to 8:50 A. M.

COURSE.	INSTRUCTOR.	ROOM.	DAYS.
Bible 1, Sec. I	Prof. Hill	B	T
Biology 7	Mr. Ewing	LH	W T F S
Chemistry 1	Prof. Exner	LH	W T F S
Economics 1	Prof. Towne	F	W T F S
English 13	Prof. Pendleton	W	T
English 15	Prof. Pendleton	W	W F
French 3	Prof. Watson	E	W T F S
German 1, Sec. I	Prof. Vestling	B	W T F S
Greek 10	Prof. Archibald	V	T
Latin 1a	Prof. Archibald	V	W T F S
Mathematics 3, Sec. I	Prof. Gingrich	S	W T F S
Philosophy 6	Prof. Weigle	G	W T F S
Physics 3	Prof. Kent	LH	W T F S
Public Speaking 1, Sec. I	Miss Lowe	C	T
Public Speaking 3, Sec. I	Prof. Cochran	Ch	T
Rhetoric 1, Sec. I	Dr. Sigsbee	W	T

9:00 to 9:50 A. M.

COURSE.	INSTRUCTOR.	ROOM.	W	T	F	S
Bible 1, Sec. 2	Prof. Hill	B				
Chemistry 3, Laboratory	Prof. Exner	LH				
Education 5	Prof. Weigle	G				
English 3	Prof. Cochran	D				
English 7	Prof. Pendleton	W				
French 1, Sec. 1	Prof. Watson	E	T		F	S
German 3, Sec. 1	Prof. Vestling	B	T		F	S
Greek 1	Prof. Archibald	V	T		F	S
Greek 9	Prof. Archibald	V				
History 1	Prof. Towne	F	T		F	S
Latin 1	Prof. Keith	A	T		F	S
Mathematics 7	Prof. Wilson	T	T		F	S
Mathematics 3, Sec. 2	Prof. Gingrich	S	T		F	S
Music 3	Prof. Lawrence	MH				
Music 7	Prof. Lawrence	MH	T			
Philosophy 1, Sec. 1	Mr. Headley	C	T		F	S
Physical Ed., Junior Men	Prof. Zarfos	Gym				
Physics 1	Prof. Kent	LH	T		F	
Public Speaking 1, Sec. 2	Miss Lowe	C				
Rhetoric 1, Sec. 2	Dr. Sigsbee	W				

10:00 A. M. Chapel Exercises.

10:30 to 11:20 A. M.

COURSE.	INSTRUCTOR.	ROOM.	DAYS.		
Bible 1, Sec. 1	Prof. Hill	B	T		
Bible 1, Sec. 3	Prof. Hill	B	T	F	
Bible 3	Prof. Hill	B	W		S
Biology 1, Sec. 1	Mr. Ewing	LH	T	W	F S
Chemistry 3	Prof. Exner	LH	T	W	F S
English 9	Dr. Sigsbee	D	T	W	F S
French 5	Prof. Wilson	E	T	W	F S
Greek 10	Dr. Archibald	V		T	
History 6	Prof. Towne	F	T	W	F S
Mathematics 1, Sec. 1	Prof. Gingrich	S	T	W	F S
Mathematics 5	Prof. Wilson	T	T	W	F S
Philosophy 1, Sec. 2	Mr. Headley	LH	T	W	F S
Phys. Ed., Junior Men	Prof. Zarfos	Gym		T	
Public Speaking 1, Sec. 1	Miss Lowe	C		T	
Public Speaking 1, Sec. 3	Miss Lowe	C	T		F
Public Speaking 3, Sec. 1	Prof. Cochran	Ch		T	
Rhetoric 1, Sec. 1	Dr. Sigsbee	W		T	
Rhetoric 1, Sec. 3	Prof. Cochran	W	T		F
Rhetoric 1, Sec. 4	Prof. Cochran	W	W		S
Rhetoric 5	Prof. Pendleton	V	T	F	
Rhetoric 3	Prof. Pendleton	V	W		S

11:30 A. M. to 12:20 P. M.

COURSE.	INSTRUCTOR.	ROOM.	DAYS.		
Bible 1, Sec. 2	Prof. Hill	B			F
Bible 6	Prof. Hill	F	T	W	T
Biology 1, Sec. 2	Mr. Ewing	LH	T	W	T
Chemistry 3, Laboratory	Prof. Exner	LH	T	W	T
English 5	Prof. Pendleton	W	T	W	T
German 3, Sec. 2	Dr. Sigsbee	D	T	W	T
*German 5a	Prof. Vestling	B	T	W	T
Greek 9	Prof. Archibald	V			F
Latin 3	Prof. Keith	A	T	W	T
Mathematics 1, Sec. 2	Prof. Gingrich	S	T	W	T
Mathematics 1a, Sec. 1	Miss Short	C	T	W	T
Philosophy 4	Mr. Headley	G	T	W	T
Phys. Ed., Junior Men	Prof. Zarfos	Gym			F
Public Speaking 1, Sec. 2	Miss Lowe	C			F
Public Speaking 3, Sec. 2	Prof. Cochran	Ch	W		F
Rhetoric 1, Sec. 2	Dr. Sigsbee	W			F

*German 5a is for students who have had three years of German; 5b for those who have had two years.

1:40 to 2:30 P. M.

COURSE.	INSTRUCTOR.	ROOM.	DAYS.		
Astronomy 2	Prof. Wilson	T	T	W	T
Bible 5	Prof. Hill	G	T	W	T
Biology 3	Mr. Ewing	LH	T	W	T
Chemistry 1, Laboratory	Prof. Exner	LH	T	W	T
Chemistry 5	Prof. Exner	LH	T	W	T
Education 3	Mr. Headley	F	T	W	T
*German 5b	Prof. Vestling	B	T	W	T
Greek 3	Prof. Archibald	V	T	W	T
Latin 1b	Prof. Keith	A	T	W	T
Mathematics 1a, Sec. 2	Miss Short	S	T	W	T
Mechanical Drawing	Prof. Kent	Wm	W		F
Music 1	Prof. Lawrence	MH	T		T
Music 5	Prof. Lawrence	MH	W		F
Physics 9	Prof. Kent	LH	T	W	T
Public Speaking 5	Prof. Cochran	W	T		T
Public Speaking 7	Prof. Cochran	W	W		F

2:40 to 3:30 P. M.

COURSE.	INSTRUCTOR.	ROOM.	DAYS.		
Bible 8	Prof. Hill	G	T	W	T
Biology 3, Laboratory	Miss Adams	LH	T	W	T
Chemistry 5	Prof. Exner	LH	T	W	T
Economics 5	Prof. Towne	F	T	W	T
French 1, Sec. 2	Prof. Watson	E	T	W	T
German 1, Sec. 2	Dr. Sigsbee	B	T	W	T
Latin 5	Prof. Keith	A	T	W	T
Mathematics 1, Sec. 3	Prof. Gingrich	S	T	W	T
Mechanical Drawing	Prof. Kent	Wm	W		F
Ph. Ed. Fresh. W., Sec. I	Miss Norwood	GH	W		F
Ph. Ed. Soph. W., Sec. I	Miss Lowe	GH	T		T
Ph. Ed. Jun. W., Sec. I	Miss Lowe	Church	T		F
Public Speaking 9	Prof. Cochran	W			T

*German 5a is for students who have had three years of German; 5b for those who have had two years.

3:40 to 4:30 P. M.

COURSE.	INSTRUCTOR.	ROOM.	DAYS.
Chemistry 5	Prof. Exner	LH	T W T F
Ph. Ed. Fresh. Men	Prof. Zarfos	Gym	T W F
Ph. Ed. Fresh. W., Sec. 2	Miss Norwood	GH	T T
Ph. Ed. Soph. W., Sec 2	Miss Lowe	GH	W F
Ph. Ed. Jun. W., Sec. 2	Miss Lowe	Church	T F
Rhetoric 7	Prof. Pendleton	W	T

4:40 to 5:30 P. M.

COURSE.	INSTRUCTOR.	ROOM.	DAYS.
Ph. Ed. Soph. Men	Prof. Zarfos	Gym	T W F
Ph. Ed. Fresh. W., Lect.	Miss Lowe	GH	T
Ph. Ed. Fresh. W., Sec. 3	Miss Norwood	GH	W F
Ph. Ed. Soph. W., Sec 3	Miss Lowe	GH	T T
Rhetoric 7	Prof. Pendleton	W	T

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Rooms A to I are in Willis Hall; LH in Laird Science Hall; S and T in the Observatory; V and W in the Library; Ch. Chapel; Church, Congregational Gymnasium; MH, Music Hall; Gym., Gymnasium; GH, Gridley Hall; Wm, Williams Hall.

